



6082

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LOW-MU TWIN POWER TRIODE

GENERAL DATA

Heater, for Unipotential Cathodes:

Voltage 26.5 $\pm$ 10% . . . ac or dc volts

Current 0.6 amp

Direct Interelectrode Capacitances (Approx.):

(Each Unit, without external shield)

Grid to Plate 8 μf Input 6 μf Output 2.2 μf

Heater to Cathode:

Triode Unit No.1 13 μf Triode Unit No.2 13 μf Grid of Unit No.1 to Grid of Unit No.2 . . . 0.5 . . . μf Plate of Unit No.1
to Plate of Unit No.2 2 μf Characteristics, Amplifier Class A₁ (Each Unit):

Plate-Supply Voltage 135 volts

Cathode-Bias Resistor 250 ohms

Amplification Factor 2

Plate Resistance 280 ohms

Transconductance 7000 μmhos

Plate Current 125 ma

Mechanical:

Mounting Position Any

Maximum Overall Length 4-1/16" ←

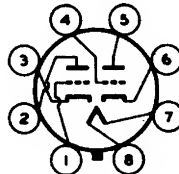
Maximum Seated Length 3-1/2" ←

Maximum Diameter 1-23/32"

Bulb T-12

Base Large-Wafer Octal 8-Pin with Sleeve and
External Barriers (JETEC No. B8-98) ←

Basing Designation for BOTTOM VIEW 8BD

Pin 1-Grid of
Unit No.2Pin 2-Plate of
Unit No.2Pin 3-Cathode of
Unit No.2Pin 4-Grid of
Unit No.1Pin 5-Plate
Unit No.1Pin 6-Cathode of
Unit No.1

Pin 7-Heater

Pin 8-Heater

DC AMPLIFIER

Values are for Each Unit

Maximum Ratings, Absolute Values:

PLATE VOLTAGE 250 max. volts

PLATE CURRENT 125 max. ma

PLATE DISSIPATION 13 max. watts

PEAK HEATER-CATHODE VOLTAGE:

Heater negative with respect to cathode . . . 300 max. volts

Heater positive with respect to cathode . . . 300 max. volts

← indicates a change

AUG. 1, 1953

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RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

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BULB TEMPERATURE* 200 max. °C

Maximum Circuit Values:

Grid-Circuit Resistance:

For cathode-bias operation 1.0 max. megohm
 For fixed-bias operation[□] 0.1 max. megohm
 For combined fixed- and
 cathode-bias operation* 0.1 max. megohm

CHARACTERISTICS RANGE VALUES FOR EQUIPMENT DESIGN

	Note	Min.	Max.	
Heater Current	1	0.55	0.65	amp
Amplification Factor (Each Unit)	1,2	1.4	2.6	
Plate Current (Each Unit)	1,2	100	150	ma
Transconductance (Each Unit)	1,2	5800	8200	μmhos
Reverse Grid Current (Units in Parallel). 1,3	-	-	4	μamp

Note 1: With 26.5 volts ac or dc on heater.

Note 2: With plate-supply voltage of 135 volts, and cathode-bias resistor of 250 ohms in each cathode (both triode units operating).

Note 3: With plate-supply voltage of 135 volts, grid resistor of 1 megohm in each grid and cathode-bias resistor of 250 ohms in each cathode (both triode units operating).

● At hottest point on bulb surface.

□ When fixed bias is used, the plate circuit should contain a protective resistance to provide a minimum drop of 15 volts dc at the normal operating conditions.

* When combined fixed- and cathode-bias is used, the cathode-bias portion should have a minimum value of 7.5 volts dc at the normal operating conditions.

SPECIAL RATINGS & PERFORMANCE DATA

Shock Rating:

Impact Acceleration 450 max. g
 Tubes are held rigid in four different positions in a Navy Type, High Impact (flyweight) Shock Machine and are subjected to 450 g impact acceleration.

Fatigue Rating:

Vibrational Acceleration 2.5 max. g
 Tubes are rigidly mounted and subjected in each of three positions to 2.5 g vibrational acceleration at 25 cycles per second for 32 hours.

Low-Frequency Vibration Performance:

RMS Output Voltage 200 max. mv
 Under the following conditions and with units connected in parallel: Heater voltage of 26.5 volts, plate voltage

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supply of 135 volts, dc grid voltage of -7 volts, plate load resistance of 2000 ohms, and vibrational acceleration of 2.5 g at 25 cycles per second.

Outline Drawing and
Average Plate Characteristics Curve
for the 6082 are the same as
shown for Type 6080

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